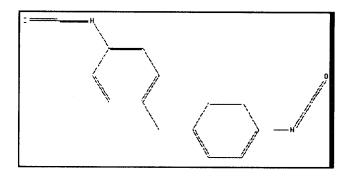
Company Name: International Isocyanate Institute 8EHQ-0692-5043 A

Submission Dated: June 11, 1992

Chemical Name: Diphenylmethane-4,4'-diisocyanate (MDI)

**CAS Number:** 101-68-6



## STUDY DESIGN AND RESULTS:

## Topical Sensitization Study in Guinea Pigs (Final Report)

<u>Dosage/route/duration</u>: Eight guinea pigs were exposed topically to a single 400  $\mu$ l application of various concentrations (10%, 30%, and 100%) of MDI on the scapular region. Control animals received an equal volume of corn oil alone. Application sites were occluded for 6 hours and the patch then removed. The guinea pigs were challenged subsequently by inhalation exposure to atmospheres containing between 25 and 30 mg/m³.

## RESULTS:

No responses were observed in the control group. In guinea pigs treated previously with MDI positive responses were recorded (1/8, 2/8, and 7/8 animals sensitized with 10%, 30% and 100 MDI respectively, exhibited significant changes in respiratory rate following challenge).

 The report states that the data indicates that respiratory hypersensitivity in guinea pigs may result from dermal

exposure to MDI.

## **VOLUNTARY ACTIONS INDICATED: None**